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DATE: Wednesday, September 20, 2006

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☐	L14	(548/335.1)![CCLS]	511
☐	L13	(435/6)![CCLS]	36324
☐	L12	L11 and l1	10
☐	L11	L10 and l5	18
☐	L10	apoptosis or cell death	46411
☐	L9	L8 and l1	14
☐	L8	imidazolyl disulfid$	24
☐	L7	imidazolyl	39407
☐	L6	L5 and L1	10
☐	L5	powis.in.	78
☐	L4	L3 not @ay>1995	5
☐	L3	L2 and antibod$	97
☐	L2	L1.ab.	179
☐	L1	thioredoxin	6843

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 NEWS  4  MAY 10  CA/CAplus enhanced with 1900-1906 U.S. patent records
 NEWS  5  MAY 11  KOREAPAT updates resume
 NEWS  6  MAY 19  Derwent World Patents Index to be reloaded and enhanced
 NEWS  7  MAY 30  IPC 8 Rolled-up Core codes added to CA/CAplus and
                  USPATFULL/USPAT2
 NEWS  8  MAY 30  The F-Term thesaurus is now available in CA/CAplus
 NEWS  9  JUN 02  The first reclassification of IPC codes now complete in
                  INPADOC
 NEWS 10  JUN 26  TULSA/TULSA2 reloaded and enhanced with new search and
                  and display fields
 NEWS 11  JUN 28  Price changes in full-text patent databases EPFULL and PCTFULL
 NEWS 12  JUl 11  CHEMSAFE reloaded and enhanced
 NEWS 13  JUl 14  FSTA enhanced with Japanese patents
 NEWS 14  JUl 19  Coverage of Research Disclosure reinstated in DWPI
 NEWS 15  AUG 09  INSPEC enhanced with 1898-1968 archive
 NEWS 16  AUG 28  ADISCTI Reloaded and Enhanced
 NEWS 17  AUG 30  CA(SM)/CAplus(SM) Austrian patent law changes
 NEWS 18  SEP 11  CA/CAplus enhanced with more pre-1907 records

 NEWS EXPRESS  JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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=> s thioredoxin
          5812 THIOREDOXIN
          3679 THIOREDOXINS
L1        6388 THIOREDOXIN
                 (THIOREDOXIN OR THIOREDOXINS)

=> s cancer? or tumor? or neoplas?
        306312 CANCER?
        441863 TUMOR?
        463561 NEOPLAS?
L2      732005 CANCER? OR TUMOR? OR NEOPLAS?

=> s l1 (l) l2
L3         589 L1 (L) L2

=> s l3 not py>1995
      10304536 PY>1995
L4           49 L3 NOT PY>1995

=> s imidazolyl?
L5        10560 IMIDAZOLYL?

=> s l5 and l4
L6            1 L5 AND L4

=> d ibib

L6   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER:         1995:523489  CAPLUS
DOCUMENT NUMBER:          123:47459
TITLE:                    The thioredoxin/thioredoxin reductase redox system and
                          control of cell growth
AUTHOR(S):                Powis, Garth; Oblong, John E.; Gasdaska, Pamela Y.;
                          Berggren, Margareta; Hill, Simon R.; Kirkpatrick, D.
                          Lynn
CORPORATE SOURCE:         Arizona Cancer Center, Tucson, AZ, 85724, USA
SOURCE:                   Oncology Research (1994), 6(10-11), 539-44
```

CODEN: ONREE8; ISSN: 0965-0407
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

=> d ibib kwic

L6 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:523489 CAPLUS
DOCUMENT NUMBER: 123:47459
TITLE: The thioredoxin/thioredoxin reductase redox system and control of cell growth
AUTHOR(S): Powis, Garth; Oblong, John E.; Gasdaska, Pamela Y.; Berggren, Margareta; Hill, Simon R.; Kirkpatrick, D. Lynn
CORPORATE SOURCE: Arizona Cancer Center, Tucson, AZ, 85724, USA
SOURCE: Oncology Research (1994), 6(10-11), 539-44
CODEN: ONREE8; ISSN: 0965-0407
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Thioredoxin is a redox protein that is important for a variety of intracellular functions, possibly including regulation of transcription factor activity. We have shown that human thioredoxin has the same predicted amino acid sequence as adult T-cell-derived leukemic cell growth factor. Recombinant human thioredoxin stimulates the proliferation of Swiss murine 3T3 fibroblasts with an EC50 of 100 nM and the proliferation of a number of human cancer cells. Site-directed mutagenesis of the active-site cysteines of thioredoxin has shown that redox activity is necessary for the stimulation of cell proliferation. Added 125I-thioredoxin is taken up by cells in culture and could have intracellular action. A series of alkyl 2-imidazolyl disulfides have been shown to be competitive inhibitors of human thioredoxin reductase with Ki values of 3.3 to 8.6 μM. The compds. inhibited Swiss 3T3 serum-dependent proliferation with IC50 values of 2.0 to 4.0 μM, and one compound inhibited Swiss 3T3 thioredoxin-dependent proliferation with an IC50 value of 60 nM.
IT Cell proliferation
Neoplasm
Redox reaction
(thioredoxin/thioredoxin reductase redox system and control of cell growth)